



SEQUENCE LISTING

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Fasqualini, Renata
Rajotte, Daniel

<120> Methods of Identifying Lung Homing Molecules Using
Membrane Dipeptidase

<130> P-LJ 4377

<140> 09/676,475

<141> 2000-09-29

<150> 09/258,754

<151> 1999-02-26

<160> 452

<170> PatentIn Ver. 2.0

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Cys Ser Lys Leu Met Met Thr Cys

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Ser Leu Cys Arg Leu Ser Thr Cys Ser

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Gly Leu Cys Gln Glu His Arg Cys Trp
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Ala Leu Glu Arg Arg Ser Leu

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<211> 411

<212> FRT

<213> Homo sapiens

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			20					25					30		

Ile	Asp	Gly	His	Asn	Asp	Leu	Pro	Trp	Gln	Leu	Leu	Asp	Met	Phe	Asn
		35					40					45			

Asn	Arg	Leu	Gln	Asp	Glu	Arg	Ala	Asn	Leu	Thr	Thr	Leu	Ala	Gly	Thr
	50					55					60				

His	Thr	Asn	Ile	Pro	Lys	Leu	Arg	Ala	Gly	Phe	Val	Gly	Gly	Gln	Phe
65					70					75					80

Trp	Ser	Val	Tyr	Thr	Pro	Cys	Asp	Thr	Gln	Asn	Lys	Asp	Ala	Val	Arg
				85					90					95	

Arg	Thr	Leu	Glu	Gln	Met	Asp	Val	Val	His	Arg	Met	Cys	Arg	Met	Tyr
		100						105					110		

Pro	Glu	Thr	Phe	Leu	Tyr	Val	Thr	Ser	Ser	Ala	Gly	Ile	Arg	Gln	Ala
		115					120					125			

Phe	Arg	Glu	Gly	Lys	Val	Ala	Ser	Leu	Ile	Gly	Val	Glu	Gly	Gly	His
	130					135					140				

Ser	Ile	Asp	Ser	Ser	Leu	Gly	Val	Leu	Arg	Ala	Leu	Tyr	Gln	Leu	Gly
145					150					155					160

Met	Arg	Tyr	Leu	Thr	Leu	Thr	His	Ser	Cys	Asn	Thr	Pro	Trp	Ala	Asp
			165						170					175	

Asn	Trp	Leu	Val	Asp	Thr	Gly	Asp	Ser	Glu	Pro	Gln	Ser	Gln	Gly	Leu
		180						185					190		

Ser	Pro	Phe	Gly	Gln	Arg	Val	Val	Lys	Glu	Leu	Asn	Arg	Leu	Gly	Val
		195					200					205			

Leu	Ile	Asp	Leu	Ala	His	Val	Ser	Val	Ala	Thr	Met	Lys	Ala	Thr	Leu
	210					215					220				

Gln	Leu	Ser	Arg	Ala	Pro	Val	Ile	Phe	Ser	His	Ser	Ser	Ala	Tyr	Ser
225					230					235					240

Val Cys Ala Ser Arg Arg Asn Val Pro Asp Asp Val Leu Arg Leu Val
 245 250 255
 Lys Gln Thr Asp Ser Leu Val Met Val Asn Phe Tyr Asn Asn Tyr Ile
 260 265 270
 Ser Cys Thr Asn Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp
 275 280 285
 His Ile Lys Glu Val Ala Gly Ala Arg Ala Val Gly Phe Gly Gly Asp
 290 295 300
 Phe Asp Gly Val Pro Arg Val Pro Glu Gly Leu Glu Asp Val Ser Lys
 305 310 315 320
 Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Ala
 325 330 335
 Glu Val Lys Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala
 340 345 350
 Val Glu Gln Ala Ser Asn Leu Thr Gln Ala Pro Glu Glu Glu Pro Ile
 355 360 365
 Pro Leu Asp Gln Leu Gly Gly Ser Cys Arg Thr His Tyr Gly Tyr Ser
 370 375 380
 Ser Gly Ala Ser Ser Leu His Arg His Trp Gly Leu Leu Leu Ala Ser
 385 390 395 400
 Leu Ala Pro Leu Val Leu Cys Leu Ser Leu Leu
 405 410

<210> 449
 <211> 409
 <212> PRT
 <213> Sus scrofa

<400> 449
 Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Ala Ala
 1 5 10 15
 Asp Gln Phe Arg Asp Leu Ala Val Arg Ile Met Gln Asp Thr Pro Val
 20 25 30
 Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn
 35 40 45
 Asn Gln Leu Gln Asp Pro Gly Ala Asn Leu Ser Ser Leu Ala His Thr
 50 55 60
 His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gly Gln Phe
 65 70 75 80
 Trp Ser Ala Tyr Val Pro Cys Asp Thr Gln Asn Arg Asp Ala Val Lys
 85 90 95

Arg Thr Leu Glu Gln Ile Asp Val Ile Gln Arg Met Cys Gln Ala Tyr
 100 105 110
 Pro Glu Thr Phe Ala Cys Val Thr Ser Ser Thr Gly Ile Arg Gln Ala
 115 120 125
 Phe Arg Glu Gly Lys Val Ala Ser Leu Val Gly Val Glu Gly Gly His
 130 135 140
 Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr His Leu Gly
 145 150 155 160
 Met Arg Tyr Met Thr Leu Thr His Ser Cys Asn Thr Pro Trp Ala Asp
 165 170 175
 Asn Trp Leu Val Asp Thr Gly Asp Asp Lys Ala Gln Ser Gln Gly Leu
 180 185 190
 Ser His Phe Gly Gln Ser Val Val Lys Glu Met Asn Arg Leu Gly Val
 195 200 205
 Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Arg Ala Ala Leu
 210 215 220
 Lys Leu Ser Gln Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
 225 230 235 240
 Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
 245 250 255
 Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val
 260 265 270
 Ser Cys Ser Ala Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp
 275 280 285
 His Ile Lys Lys Val Ala Gly Ala Ala Ala Val Gly Phe Gly Gly Asp
 290 295 300
 Tyr Asp Gly Val Ser Arg Val Pro Ser Gly Leu Glu Asp Val Ser Lys
 305 310 315 320
 Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gln Trp Thr Glu Ala
 325 330 335
 Glu Val Arg Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala
 340 345 350
 Val Glu Gln Ala Ser Asn His Ala Gln Val Pro Gly Glu Glu Pro Ile
 355 360 365
 Pro Leu Gly Gln Leu Glu Ala Ser Cys Arg Thr Asn Tyr Gly Tyr Ser
 370 375 380
 Ala Ala Pro Ser Leu His Leu Pro Pro Gly Ser Leu Leu Ala Ser Leu
 385 390 395 400

Val Pro Leu Leu Leu Leu Ser Leu Pro
405

<210> 450

<211> 410

<212> PRT

<213> Rattus sp.

<400> 450

Met Leu Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser
1 5 10 15

Asp Ser Phe Arg Asn Gln Ala Glu Asn Ile Met Arg Thr Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu Thr Leu Phe Asn
35 40 45

Asn Glu Leu Arg Lys Ser Glu Ala Asn Leu Ser Ala Leu Ala Glu Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys
85 90 95

Arg Ile Leu Glu Gln Ile Asp Val Ile His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Glu Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala
115 120 125

Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Lys Gly Asp Asp Glu Ala Glu Ser Gln Gly Leu
180 185 190

Ser Pro Phe Gly Lys Leu Val Leu Asn Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu
210 215 220

Gln Leu Ser Lys Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
225 230 235 240

Val Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val

Arg Thr Leu Glu Gln Met Asp Val Ile His Arg Met Cys Gln Leu Tyr
 100 105 110
 Pro Glu Thr Phe Met Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala
 115 120 125
 Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
 130 135 140
 Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly
 145 150 155 160
 Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
 165 170 175
 Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Glu Ser His Gly Leu
 180 185 190
 Ser Pro Phe Gly Lys Arg Leu Leu Asn Glu Met Thr Arg Leu Gly Val
 195 200 205
 Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu
 210 215 220
 Gln Ile Ser Arg Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
 225 230 235 240
 Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
 245 250 255
 Lys Asn Thr Ser Ser Leu Val Met Val Asn Phe Phe Ser Asn Phe Val
 260 265 270
 Ser Cys Ser Asp Ser Ala Thr Leu Pro Gln Val Ala Asp His Leu Asp
 275 280 285
 His Ile Lys Lys Val Ala Gly Ala Gly Ala Val Gly Leu Gly Gly Asp
 290 295 300
 Tyr Asp Gly Val Thr Met Leu Pro Val Gly Leu Glu Asp Val Ser Lys
 305 310 315 320
 Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Thr
 325 330 335
 Glu Val Arg Gly Leu Leu Ala Asp Asn Leu Ile Arg Val Phe Ser Glu
 340 345 350
 Val Glu Leu Val Ser Ser Asn Met Gln Ser Pro Glu Glu Val Pro Ile
 355 360 365
 Thr Leu Lys Glu Leu Asp Gly Ser Cys Arg Thr Tyr Tyr Gly Tyr Ser
 370 375 380
 Gln Ala His Ser Ile His Leu Gln Thr Gly Ala Leu Val Ala Ser Leu
 385 390 395 400

Ala Ser Leu Leu Phe Arg Leu His Leu Leu
405 410

<210> 452

<211> 410

<212> PRT

<213> Oryctolagus cuniculus

<400> 452

Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Thr Ala
1 5 10 15

Asp Ser Phe Leu Asp Gln Ala Val Gln Ile Leu Arg Val Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Lys Phe Asn
35 40 45

Asn Arg Leu Gln Asp Ser Arg Ala Asn Leu Thr Val Leu Ala Asp Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Thr Pro Cys Asp Thr Gln Asn Lys Asp Thr Val Arg
85 90 95

Arg Thr Leu Glu Gln Met Asp Val Val His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Leu Cys Val Thr Asp Ser Ala Gly Ile Gln Gln Ala
115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr Arg Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Gln Ser Gly Gly Leu
180 185 190

Ser Val Phe Gly Gln Arg Val Val Arg Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Lys Ala Ala Leu
210 215 220

Gln Leu Ser Thr Ala Pro Val Ile Phe Ser His Ser Ser Ala Phe Thr
225 230 235 240

Val Cys Ala His Lys Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val
 260 265 270
 Ser Cys Ala Ser Glu Ala Thr Leu Ser Gln Val Ala Asp His Leu Asp
 275 280 285
 Tyr Ile Lys Asn Val Ala Gly Ala Ala Ala Val Arg Phe Gly Gly Asp
 290 295 300
 Phe Asp Gly Val Thr Arg Leu Pro Val Gly Leu Glu Asp Val Ser Lys
 305 310 315 320
 Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gly Trp Thr Glu Ala
 325 330 335
 Glu Val Arg Gly Ala Leu Ala Glu Asn Leu Leu Arg Val Phe Arg Glu
 340 345 350
 Val Glu Gln Val Ser Asn Gln Ala Gln Val Pro Glu Glu Glu Pro Ile
 355 360 365
 Ser Leu Glu Gln Leu Gly Gly Ser Cys Arg Thr Gln Tyr Gly Tyr Ser
 370 375 380
 Glu Ala Pro Ser Leu His Arg Arg Pro Gly Ala Leu Leu Ala Ser Leu
 385 390 395 400
 Ser Leu Leu Leu Leu Ser Leu Gly Leu Leu
 405 410